

**AIR TRAFFIC CONTROL METEOROLOGICAL/NAVIGATIONAL MAINTENANCE
Combat Communications Squadron**

1. Objective. As prescribed in AFI 38-201, *Determining Manpower Requirements*, this Air National Guard Manpower Standard (ANGMS) quantifies the full-time manpower requirement to accomplish the tasks described in the work center description within the Air Traffic Control Meteorological/Navigational (ATC MET/NAV) Maintenance work center.

2. Authority. The AFI 21-series (formerly 66-series) of Air Force and/or Air National Guard directives contain command policy and procedural guidance for the ATC MET/NAV Maintenance work center. This ANGMS has been developed in accordance with procedures contained in AFPAM 38-208V1, *Air Force Management Engineering Program (MEP) Processes*, formerly AFR 25-5.

3. Applicability:

- a. This standard applies to all ANG Combat Communications Squadrons with full-time authorizations in the ATC MET/NAV Maintenance work center, FAC 2600C7.
- b. This standard applies to peacetime operations only.

4. Standard Data:

- a. Classification. Type III.
- b. Approval Date. 16 June 1994.
- c. Manpower Data Source. Staffing Pattern.
- d. Standard Manpower Equation. $Y = 1$ (Constant Manpower).
- e. Workload Factors. N/A.

5. Application Instructions. This work center requires constant manpower of one. No other application instructions apply.

6. Statement of Conditions. The conditions listed below had no affect on the development of this standard, nor will they affect future applications. Analyses of these levels of service indicate no manpower impact:

- a. Minimum response rates.
- b. Minimum manpower levels.
- c. Standardized crew complements.
- d. Safety considerations.
- e. Aircraft turn-around time.
- f. Length of waiting periods.
- g. Levels of backlog.
- h. Hours of operation.

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2 Attachments
1. Work Center Description
2. Standard Manpower Table

WORK CENTER DESCRIPTION**Air Traffic Control Meteorological/Navigational Maintenance****DIRECT:****1. GROUND RADIO/NAVIGATIONAL AIDS (NAVAIDS):****1.1. MAINTAINS TSW-7 MOBILE AIR TRAFFIC CONTROL (ATC) TOWER:**

1.1.1. PERFORMS TSW-7 MOBILE ATC TOWER MAINTENANCE. Travels to site, performs maintenance, completes documentation, and returns to work center.

1.1.1.1. PERFORMS PRE-UNIT TRAINING ASSEMBLY (UTA) MAINTENANCE READY INSPECTION.

1.1.1.2. PERFORMS UNSCHEDULED MAINTENANCE. Troubleshoots and diagnoses malfunction; removes, replaces, and repairs component; and conducts operational check.

1.1.1.3. PERFORMS PERIODIC MAINTENANCE INSPECTION (PMI). Inspects equipment in accordance with (IAW) Periodic Inspection Work Card; performs required maintenance; and performs operational check.

1.1.1.3.1. PERFORMS DAILY PMI

1.1.1.3.2. PERFORMS 7-DAY PMI

1.1.1.3.3. PERFORMS 14-DAY PMI

1.1.1.3.4. PERFORMS 28-DAY PMI

1.1.1.3.5. PERFORMS 56-DAY PMI

1.1.2. SERVICES TSW-7 MOBILE ATC TOWER. Performs servicing inspection IAW applicable technical order (T.O.) and performs minor repair discovered during inspection.

1.1.3. SETS UP TSW-7 MOBILE ATC TOWER FOR DEPLOYMENT OR OPERATIONAL READINESS INSPECTION (ORI).

1.2. MAINTAINS MPN-14K MOBILE LANDING RADAR SYSTEM (COMMUNICATION COMPONENTS):

1.2.1. PERFORMS MPN-14K MOBILE LANDING RADAR SYSTEM (COMMUNICATIONS COMPONENTS) MAINTENANCE. Travels to site, performs maintenance, completes documentation, and returns to work center.

1.2.1.1. PERFORMS PRE-UTA MAINTENANCE READY INSPECTION.

1.2.1.2. PERFORMS UNSCHEDULED MAINTENANCE. Troubleshoots and diagnoses malfunction; removes, replaces, and repairs component; and conducts operational check.

1.2.1.3. PERFORMS PMI. Inspects equipment IAW Periodic Inspection Work Card; performs required maintenance; and performs operational check.

1.2.1.3.1. PERFORMS 7-DAY PMI

1.2.1.3.2. PERFORMS 28-DAY PMI

1.2.1.3.3. PERFORMS 336-DAY PMI

1.2.2. SERVICES MPN-14K MOBILE LANDING RADAR SYSTEM. Performs servicing inspection IAW applicable T.O. and performs minor repair discovered during daily inspection.

1.2.3. SETS UP MPN-14K MOBILE LANDING RADAR SYSTEM (COMMUNICATION COMPONENTS) FOR DEPLOYMENT OR ORI

1.3. MAINTAINS TRN-26A BEACON TRANSPONDER SET:

1.3.1. PERFORMS TRN-26A BEACON TRANSPONDER SET MAINTENANCE. Travels to site, performs maintenance, completes documentation, and returns to work center.

1.3.1.1. PERFORMS PRE-UTA MAINTENANCE READY INSPECTION.

1.3.1.2. PERFORMS UNSCHEDULED MAINTENANCE. Troubleshoots and diagnoses malfunction; removes, replaces, and repairs component; and conducts operational check.

1.3.1.3. PERFORMS PMI. Inspects equipment IAW Periodic Inspection Work Card; performs required maintenance; and performs operational check.

1.3.1.3.1. PERFORMS 7-DAY PMI

1.3.1.3.2. PERFORMS 28-DAY PMI

1.3.1.3.3. PERFORMS 56-DAY PMI

1.3.2. SERVICES TRN-26A BEACON TRANSPONDER SET. Performs servicing inspection IAW applicable T.O. and performs minor repair discovered during inspection.

1.3.3. SETS UP TRN-26A BEACON TRANSPONDER SET FOR DEPLOYMENT OR ORI

1.4. MAINTAINS OTHER COMMUNICATIONS SYSTEM. Inspects equipment IAW Periodic Inspection Work Card; performs required maintenance; and performs operational check.

1.4.1. PERFORMS AN/TRC-176 ULTRA HIGH FREQUENCY/VERY HIGH FREQUENCY (UHF/VHF) TRANSCEIVER MAINTENANCE:

1.4.1.1. PERFORMS UNSCHEDULED MAINTENANCE.

1.4.1.2. PERFORMS 168-DAY PMI

1.4.2. MAINTAINS AN/PRC-113 UHF/VHF TRANSCEIVER:

1.4.2.1. PERFORMS UNSCHEDULED MAINTENANCE.

1.4.2.2. PERFORMS 168-DAY PMI.

1.4.3. MAINTAINS AN/GRC-171 UHF TRANSCEIVER. Performs 336-day PMI.

2. INSPECTION/CERTIFICATION:

2.1. ASSISTS IN PERFORMING QUALITY CONTROL TECHNICAL INSPECTION. Assists in performing quality control technical inspection by providing technical assistance and performing task(s) as necessary.

2.2. ASSISTS IN FEDERAL AVIATION ADMINISTRATION EQUIPMENT EVALUATION AND CERTIFICATION:

2.2.1. PREPARES MATERIAL. Gathers tool(s), technical information, form(s), and test equipment.

2.2.2. OPERATES EQUIPMENT FOR CERTIFICATION.

3. SUPPLY:

3.1. MAINTAINS REPAIR CYCLE ASSET:

3.1.1. REPAIRS DUE IN FROM MAINTENANCE ASSET.

3.1.2. PERFORMS NOT REPAIRABLE THIS STATION ACTION.

3.2. ACQUIRES REPLACEMENT PART:

3.2.1. ORDERS EXPENDABLE PART.

3.2.2. ORDERS REPAIR CYCLE ASSET.

3.2.3. PROCESSES EQUIPMENT MAINTENANCE DEFICIENCY REPORT.

3.3. PERFORMS FUNCTIONAL CHECK OF FORWARD SUPPLY POINT ASSET.

3.4. MAINTAINS WORK CENTER BENCHSTOCK.

4. CORROSION CONTROL PROGRAM:

4.1. PREPARES UNIT. Prepares unit for repainting and paints unit.

4.2. STENCILS UNIT. Stencils and applies decal to unit after painting.

4.3. PERFORMS OPERATIONAL CHECK. Conducts operational check of equipment after painting.

5. EQUIPMENT MAINTENANCE:

5.1. PERFORMS EQUIPMENT MODIFICATION/TIME COMPLIANCE TECHNICAL ORDER.

5.2. ASSISTS VISITING TEAM.

6. MOBILITY:

6.1. DEVELOPS/MAINTAINS UNIT TYPE CODE LOGISTICS PLAN (LOG PLAN).**6.2. PERFORMS PREDEPLOYMENT TASKING:**

6.2.1. REVIEWS DOCUMENTATION. Reviews Logistic Detail (LOG DET) for accuracy and makes adjustment to LOG PLAN as necessary.

6.2.2. PERFORMS INVENTORY. Ensures that vehicle, van, pallet, or box has appropriate contents according to LOG PLAN.

6.2.3. PREPARES FOR TRANSPORT:

6.2.3.1. PREPARES TRUCK FOR DEPLOYMENT.

6.2.3.2. PREPARES PALLET FOR DEPLOYMENT.

6.3. PERFORMS POST DEPLOYMENT TASKING. Ensures that equipment is accounted for, clean, and serviceable.

6.3.1. PERFORMS POST DEPLOYMENT EQUIPMENT REINSTALLATION OF METEOROLOGICAL/NAVIGATIONAL SYSTEM.

6.3.2. PERFORMS POST DEPLOYMENT INVENTORY.

6.3.3. ORDERS REPLACEMENT ITEM AS REQUIRED.

6.3.4. CLEANS AND ENSURES SERVICEABILITY OF EQUIPMENT.

6.3.5. REPACKS AND STORES EQUIPMENT.

7. TRADITIONAL GUARDSMAN PROFICIENCY TRAINING:

7.1. REVIEWS INDIVIDUAL TRAINING RECORD/JOB PROFICIENCY GUIDE AND DETERMINES TRAINING REQUIREMENT.

7.2. ANNOTATES TRAINING RECORD UPON COMPLETION OF TRAINING.

7.3. DEVELOPS/REVIEWS TRAINING PLAN.

8. TECHNICAL DATA SUBACCOUNT MAINTENANCE. Receives and posts data and change to file. Maintains file for serviceability.

9. SNOW AND ICE REMOVAL. Unloads tool(s) from vehicle, notifies monitoring facility of arrival; removes snow and ice from critical surfaces of and around sensitive equipment; and notifies Maintenance Control of completed action.

INDIRECT:**II. SUPERVISION:**

II.1. ADMINISTERS PERSONNEL:

I1.1.4. PREPARES SELECTIVE RETENTION PROGRAM CONSIDERATION.

I1.2. SUPERVISES PERSONNEL:

I1.2.2. DEVELOPS STANDARD PUBLICATION OR OTHER DIRECTIVE:

I1.2.2.1. DEVELOPS POLICY LETTER, PROCEDURE, OR OPR INSTRUCTION.

I1.2.2.2. DEVELOPS PERFORMANCE STANDARD OR CHECKLIST.

I1.2.3. DIRECTS WORK CENTER ACTIVITY:

I1.2.3.2. COORDINATES ON WORK CENTER OR PERSONNEL STATUS.

I1.3. REVIEWS/PROCESSES INCOMING DISTRIBUTION.

I1.4. REVIEWS/PROCESSES OUTGOING DISTRIBUTION.

I1.7. INSPECTS FACILITY:

I1.7.2. INSPECTS WAREHOUSE/MAINTENANCE FACILITY.

I1.9. REVIEWS REPORT AND STATISTICAL DATA.

I2. ADMINISTRATION:

I2.5. MAINTAINS LOG AND REGISTER.

I2.13. ACKNOWLEDGES VISITOR.

I2.15. MAINTAINS MICROCOMPUTER SYSTEM.

I3. MEETING:

I3.1. PREPARES FOR MEETING:

I3.1.2. PREPARES FOR UNIT MEETING.

I3.2. CONDUCTS OR ATTENDS MEETING.

I3.2.2. CONDUCTS OR ATTENDS UNIT MEETING.

I6. EQUIPMENT MAINTENANCE:

I6.1. MAINTAINS SHOP EQUIPMENT:

I6.1.3. MAINTAINS CONSOLIDATED TOOL KIT (CTK):

I6.1.3.1. MAINTAINS CTK (NON AC MAINT).

I7. CLEANUP:

I7.1. PREPARES WORK AREA.

I7.2. PUTS WORK AWAY.

I7.3. CLEANS WORK AREA:

I7.3.2. CLEANS MAINTENANCE OR WAREHOUSE AREA.

STANDARD MANPOWER TABLE												
WORK CENTER/FAC Air Traffic Control Meteorological/ Navigational Maintenance			APPLICABILITY MAN-HOUR RANGE Constant Manpower									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
Meteorological and Navigation Systems	2E1X2	CIV	1									
TOTAL			1									
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT									
TOTAL												